

Fig. 1

[Unit of element content: % (m/ml) based on state obtained by heating and drying at 105°C)

Element detected	Water repellent of this invention
Na	0.019
Mg	< 0.001
Al	0.009
Si	0.001
P	0.005
S	0.04
Cl	0.002
K	0.48
Ce	0.001
Ti	-
Cr	-
Mn	-
Fe	0.001
Co	-
Ni	-
Zn	< 0.001
Rb	< 0.001
Sr	-
Zr	-
Nb	-
Mo	-

Fig. 2

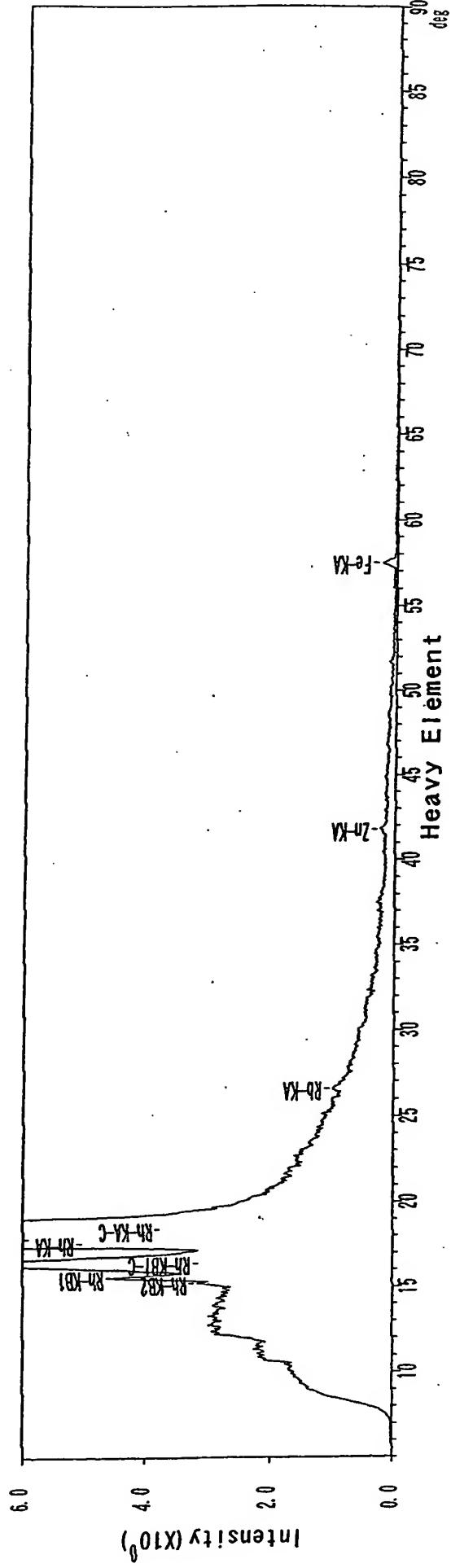
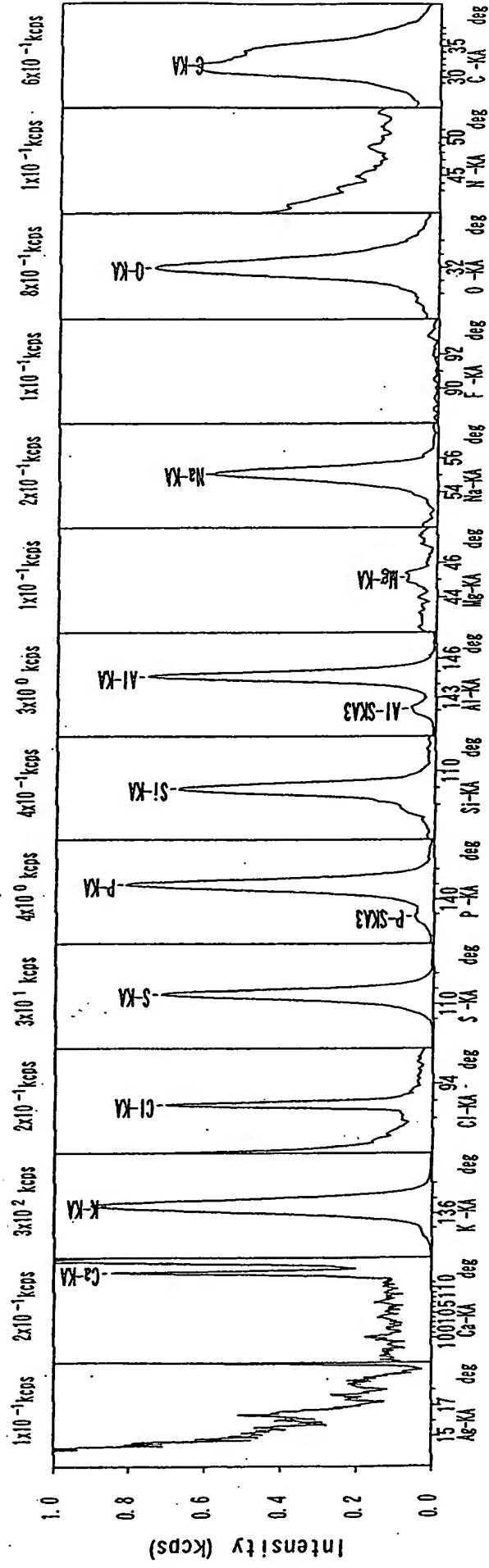


Fig. 3

Item of analytical test	Result	Limit of detection	Note	Method
PCB	None detected	0.1 ppm		Technique of gas chromatography
Eluting test			1	
Coloring material (Solvent: 20 V/V% ethanolamine)	None detected		2	
Coloring material (Solvent: 4 V/V% acetic acid)	None detected		2	
Coloring material (Solvent: n-Heptane)	None detected		3	
Coloring material (Solvent: Water)	None detected		2	
Phenol (Solvent: Water)	None detected	0.5 µg/ml	2	Technique of absorptiometry of 4-aminoantipyrine
Formaldehyde (Solvent: Water)	None detected	0.5 µg/ml	2	Technique of absorptiometry of acetyl acetone
Cadmium (Solvent: 4 V/V% Acetic acid)	None detected	0.005 µg/ml	2	Technique of atomic absorptiometry
Lead (Solvent: 4 V/V% Acetic acid)	None detected	0.05 µg/ml	2	Technique of atomic absorptiometry
Arsenic (Solvent: 4 V/V% Acetic acid)	None detected	0.05 µg/ml	2	Technique of absorptiometry of DDTA-Ag
Fluorescent substance	None detected		4	

Fig.4

Test piece	Result of observation	Angle of contact of water immediately after application	Angle of contact of water after elapse of 850 hours
Beech wood	A	104.5	103.1
Fir wood	C	98.7	94.0
Cypress wood	C	100.5	97.6
Ordinary plywood	C	109.6	107.6
Katsura wood	B	94.0	93.6
Ichii wood	E	104.8	104.5
Tamo wood	B	113.5	110.0
Zelkova wood	B	112.8	112.5
Western red cedar	D	100.5	99.4